TCGACCCACGCGTCCGGGAGGATCGGGGAGTCGCGGGAGGATGGGCCGCCGCTAGGCTCGCACTCCGGA CGCGCCTCGC 

GCTCCGGGCC

 $\tt CGCCCAAGGTCTCTCGCGGGGGGGGGAGAACGGAAAACTCCCAACTTCCTGAGTTCTAAAGTTCCTGTTG$ CTTCAGACAA

TGGATGAGCAATCACAAGGAATGCAAGGGCCACCTGTTCCTCAGTTCCAACCACAGAAGGCCTTACGA CCGGATATGG

TTTATAGAGCAGCCTGTCTCTTGGATGGAGTACCAGTAGCTTTAAAAAAAGTGCAGATATTTGATTTA **ATGGATGCCA** 

AAGCACGTGCTGATTGCATCAAAGAAATAGATCTTCTTAAGCAACTCAACCATCCAAATGTAATAAAA TATTATGCAT

CATTCATTGAAGATAATGAACTAAACATAGTTTTGGAACTAGCAGATGCTGGCGACCTATCCA GAATGATCAAGCATTTTAAGAAGCAAAAGAGGCTAATTCCTGAAAGAACTGTTTGGAAGTATTTTGTT CAGCTTTGCA

GTGCATTGGAACACATGCATTCTCGAAGAGTCATGCATAGAGATATAAAACCAGCTAATGTGTTCATT ACAGCCACTG

GGGTGGTAAAACTTGGAGATCTTGGGCTTGGCCGGTTTTTCAGCTCAAAAACCACAGCTGCAC ATTCTTTAGTTGGTACGCCTTATTACATGTCTCCAGAGAGAATACATGAAAATGGATACAACTTCAAA TCTGACATCT

TTATACTCAC

TCCGACAGTTAGTTAATATGTGCATCAACCCAGATCCAGAGAAGCGACCAGACGTCACCTATGTTTAT GACGTAGCAA

AGAGGATGCATGCACTGCAAGCAGCTAAACATGCAAGATCATGAAGAGTGTAACCAAAGTAATT GAAAGTATTT

TGTGCAAAGTCGTACCTSCCCATTTATGTCTGGGTGTTAAGATTAATATTTCAGAGCTAGTGT GCTCTGAATCCTTAACCAGTTTTCATATAAGCTTCATTTTGTACCAGTCACCTAAATCACCTCCTTGC AACCCCCAAA

TGACTTTGGAATAACTGAATTGCATGTTAGGAGAGAAAATGAAACATGATGGTTTTGAATGGCTAAAG **GTTTATAGAA** 

TGCAGCTTGGCACACATCAGAATAGACTCATACCTGAGAAAAAGTATCTGAACATGTGACTTGTTTCT TTTTTAGTAA

TTTATGGACATTGAGATGAACACAATTGTGAACTTTTGTGAAGATTTTATTTTTAAACGTTTGAAGTA

TTCTTAGCAGAGTAGTTTCAAATATGATTCTTATGATAAATGTAGACACAAACTATTTGAGA AACATTTAGAACTCTTAGCTTATACATTCAAAATGTAACTATTAAATGTGAAGATTTGGGGACAAAAT **GTGAGTCAGA** 

CACTGAAGAGTTTTTTGTTTTGATATTTTTTGATATTCTCTTTGCATTGAAATGGTATAAATGA ATCCATTTAA

AAAGTGGTTAAGGATTTGTTTAGCTGGTGTGATAATAATTTTTAAAGTTGCACATTGCCCAAG GCTTTTTTTGTGTGTTTTATTGTTGTTTGTACATTTGAAAAATATTCTTTGAATAACCTTGCAGTAC TATATTTCAA

## FIGURE 1

ATTGAAGTTCTGATCGGTCCCCTTCAGAAATTTTTTTATATTATTCTTCAAGTTACTTTCTTA TTTATATTGTATGTGCATTTTATCCATTAATGTTTCATACTTTCTGAGAGTATAATACCCTTTTAAAA GATATTTGGT

ATACCAATACTTTTĆCTGGATTGAAAACTTTTTTTAAACTTTTTAAAATTTGGGCCACTCTGTATGCA TATGTTTGGT

CTTGTTAAAGAGGAAGGAAGGATGTGTGTTATACTGTACCTGTGAATGTTGATACAGTTACAA
TTTATTTGACAAGGTTGTAATTCTAGAATATGCTTAATAAAATGAAAACTGGCCATGACTACAGCCAG
AACTGTTATG

AGATTAACATTCTATTGAGAAGCTTTTGAGTAAAGTACTGTATTTGTTCATGAAGATGACTGAGATGGTAACACTTC

GTGTAGCTTAAGGAAATGGGCAGAATTTCGTAAATGCTGTTGTGCAGATGTGTTTTCCCTGAA TGCTTTCGTATTAGTGGCGACCAGTTTCTCACAGAATTGTGAAGCCTGAAGGCCAAGAGGAAGTCACT GTTAAAGGAC

TCTGTGCCATCTTACAACCTTGGATGAATTATCCTGCCAACGTGAAAAACCTCATGTTCAAAGAACACT

CGATGTAACTGCTGGTTTTGTTTTTCATATGTGTTTTTCTTACACTCATTTGAATGCTTTCAA GCATTTGTAAACTTAAAAAAAANWAWAAAGGGCAAAAAGTCTGAACCCTTGTTTTCTGAAATCTAATC AGTTATGTAT

GGTTTCTGAAGGGTAATTTTATTTTGGAATAGGTAAAGCGAAACCTGTTTTGTCWTGTTTTTCCTGAGGGCTAGATGC

ATTTTTTTCTCACACTCTTAATGACTTTTAACATTTATACTGAGCATCCATAGATATATTCC

TAGAAGTATGAGAAGAATTATTCTTATTGACCATTAATGTCATGTTCATTTTAATGTAATAATTGA GATGAAATGT

TCTCTGGTTGGAACAGATACTCTCTTTTTTTTTTTTTCTTGCAATCTTTAAGAATACATAGATCTAAAATTC ATTAGCTTGA

CCCCTCAAAGTAACTTTTAAGTAAAGATTAAAGCTTTTCTTCTCAGTGAATATATCTGCTAGA

AGGAAATAGCTGGGAAGAATTTAATGATCAGGGAAATTCATTATTTCTATATGTGGAAACTTTTTGCTTCGAATATTG

TATCTTTTAAATCTAAATGTTCATATTTTTCCTGAAGAAACCACTGTGTAAAAATCAAATTTAATT TTGAATGGAA

TAATTTCAAAGAACTATGAAGATGATTTGAAGCTCTAATTTATATAGTCACCTATAAAATGTT

CTTTATATGTGTTCATAAGTAAATTTTATATTGATTAAGTTAAACTTTTGAATTGATTTGAGGAGCAG
TAAAATGAAA

GCTATATCTATTNCTAAACCYTATTTAGACATTGGKACCAGTTACCCAGGTGAAAATAKGGAGTAACT TTGTTTTGTA

TGGTAAGGTTTAGGAATGGNGGATGAAGGGTATCTCTATATAAATAAAGTGCTCAACAATGTG CAATGATTGTAAATTTAGTAAGATATTACAGCCATTTCATGAATGCTTTACCATTCAACATAGTATCT ATTACAAAAC

CATTAAATGTTTATTCTTTAAAATGAATGTATTATGTTTTTAACCCACAAATGCATACTTACC
CTGTGCCTCATATTTCAATAGTACTGTAATATGGACATCTTTTGTGAAATACTTTTATTTTGTTATGC
TTTAAATATA

CATACAAAAGATTTCTGTTATTAGCTTTGAAAATTGTATAATATCCTAATATAAACAAAAATATAAA AATAAAAATG

AATACAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAGG .

FIGURE 1 (cont'd)



CIKEIDLLKQLNHPNVIKYYASFIEDNELNIVLELADAGDLSRMIKHFKKQKRLIPERTVWKYFVQLC SALEHMHSRR

VMHRDIKPANVFITATGVVKLGDLGLGRFFSSKTTAAHSLVGTPYYMSPERIHENGYNFKSDI WSLGCLLYEMAALQSPFYGDKMNLYSLCKKIEQCDYPPLPSDHYSEELRQLVNMCINPDPEKRPDVTY VYDVAKRMHA

**CTASS** 

FIGURE 1 (cont'd)

ATACTTTGTCATTATGAGATGTCGT GTCGACCCACGCGTCCGGTGGAAGT TGCCTCCTTTGTGCAAATTAAATTTGATGACTTGCAGTTTTTTGAAAACTGCGGTGGAGG **AAGTTTTGGGAGTGTTTATCGAGCCAAATGGATATCACAGGACAAGGAGGTGGCT**GTAAA GAAGCTCCTCAAAATAGAGAAAGAGGCAGAAATACTCAGTGTCCTCAGTCACAGAAACAT CATCCAGTTTTATGGAGTAATTCTTGAACCTCCCAACTATGGCATTGTCACAGAATATGC TTCTCTGGGATCACTCTATGATTACATTAACAGTAACAGAAGTGAGGAGATGGATATGGA TCACATTATGACCTGGGCCACTGATGTAGCCAAAGGAATGCATTATTTACATATGGAGGC TCCTGTCAAGGTGATTCACAGAGACCTCAAGTCAAGAAACGTTGTTATAGCTGCTGATGG AGTACTGAAGATCTGTGACTTTGGTGCCTCTCGGTTCCATAA CCATACAACACACATGTC CTTGGTTGGAACTTTCCCATGGATGGCTCCAGAAGTTATCCAGAGTCTCCCTGTGTCAGA AACTTGTGACACATATTCCTATGGTGTGGTTCTCTGGGAGATGCTAACAAGGGAGGTCCC CTTTAAAGGTTTGGAAGGATTACAAGTAGCTTGGCTTGTAGTGGAAAAAAACGAGAGATT AACCATTCCAAGCAGTTGCCCCAGAAGTTTTGCTGAACTGTTACATCAGTGTTGGGAAGC TGATGCCAAGAAACGGCCATCATTCAAGCAAATCATTTCAATCCTGGAGTCCATGTCAAA TGACACGAGCCTTCCTGACAAGTGTAACTCATTCCTACACAACAAGGCGGAGTGGAGGTG CGAAATTGAGGCAACTCTTGAGAGGCTAAAGAAACTAGAGCGTGATCTCAGCTTTAAGGA GCAGGAGCTTAAAGAACGAGAAAGACGTTTAAAGATGTGGGAGCAAAAGCTGACAGAGCA GTCCAACACCCCGCTTCTCTTGCCTCTTGCTGCAAGAATGTCTGAGGAGTCTTACTTTGA **ATCTAAAACAGAGGAGTCAAACAGTGCAGAGATGTCATGTCAGATCACAGCAACAAGTAA** CEGGGAGGCCATGGCATGAACCCAAGTCTGCAGGCCATGATGCTGATGGGCTTTGGGGA **TÄTCTTCTCAATGAACAAAGCAGGAGCTGTGATGCATTCTGGGATGCAGATAAACATGCA AGCCAAGCAGAATTCTTCCAAAACCACATCTAAGAGAAGGGGGGAAGAAAGTCAACATGGC** TCTGGGGTTCAGTGATTTTGACTTGTCAGAAGGTGACGATGATGATGATGATGACGGTGA GGAGGAGGATAATGACATGGATAATAGTGAATGAAAGCAGAAAGCAAAGTAATAAAATCA CÄÄATGTTTGGAAAACACAAAAGTAACTTGTTTATCTCAGTCTGTACAAAAACAGTAAGG AGGCAGAAAGCCAAGCACTGCATTTTTAGGCCAATCACATTTACATGACCGTAATTTCTT ATCAATTCTACTTTATTTTTGCTTACAGAAAAACGGGGGGAGAATTAAGCCAAAGAAGT **ATATTTATGAATCAGCAAATGTGGTGCCTGATTATAGAAATTTGTGATCCTATATACAAT** ATAGGACTTTTAAAGTTGTGACATTCTGGCTTTTTCTTTTAATGAATACTTTTAGTTTG TAGCAATACACTGTAATATCAGAAATGGTTGGCCTGAGCAACCTAGTAAGACCTCGTCTC TACTAATAATTAAAAAACTAGCTGGCATGGTAGCACACACCTGTAGTCCCAGATACTTGG GATGGCACCACTGCACTCTAGCCTGGGCAAGAGAACAAGATCCTGTCTCAAAAAAACAAAA AAAAAAAAAAGGGCGGCCG

MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKMISQDKEVAVK KLLKIEKEAEILSVLSHRNIIQFYGVILEPPNYGIVTEYASLGSLYDYINSNRSEEMOMD HINTWATDVAKGHYLHNEAPVKVIHRDLKSRNVVIAADGVLKICDFGASRFHNHTTHMS LVGFFPMAPEVIQSLFVSETCDTYSYGVVLMEHLTREVPFKGLEGLQVAMLVVEKNERL TIPSSCPRSFAELLHQCMEADAKKRPSFKQIISILESMSNDTSLFDKCNSFLHNKAEMRC EIEATLERLKKLERDLSFKPQELKERERRLKMMPQKLTEQSNTPLLLPLAARMSEESYFE SKTEESNSAEMSCQITATSNGGJHGMNPSLQAMMLMGFGDIFSNNKAGAVNHSGNQINMQ AKQNSSKTTSKRRGKKVNMALGFSDFDLSEGDDDDDDDGEEEDNDMDNSE

GACAGGCGCTGGGCCGGCCTGCAGCTGGGTCGAGCGCTGCTGCTGCGCCTTCACGGGCA AGCCCGGCCGGGCCTACGGCTTGGGGCCGGCCGGGCGGCGGGGCTGTGTCCGCGGG AGCGTCCAGGCTGGGCCGCAGGACCGGGCGCGCGCCTCGCAGGGTCGGGCTCGGGCTTC AGTTCGTGGTGCGGGCCTGGGGCTGCGCGGGCCCTTGCGGCCGGGCAGTCTTTCTGGCCT ACACGAGACGCTTGCAGGGCTTTCGGCTGGAGGAGTATCTGATAGGGCAGTCCATTGGTA AGGGCTGCAGTGCTGTGTATGAAGCCACCATGCCTACATTGCCCCAGAACCTGGAGG TGACAAAGAGCACCGGGTTGCTTCCAGGGAGAGGCCCAGGTACCAGTGCACCAGGAGAAG GGCAGGAGCGAGCTCCGGGGGCCCCTGCCTTCCCCTTGGCCATCAAGATGATGTGGAACA CGAGCCGAGTGGCCTTGGCTGGGGAGTATGGAGCAGTCACTTACAGAAAATCCAAGAGAG GTCCCAAGCAACTAGCCCCTCACCCCAACATCATCCGGGTTCTCCGCGCCCTTCACCTCTT ACCCTGAAGGCCTGGGCCATGGCCGGACGCTGTTCCTCGTTATGAAGAACTATCCCTGTA CCCTGCGCCAGTACCTTTGTGTGAACACACCCAGCCCCGCCTCGCCGCCATGATGCTGC TGCAGCTGCTGGAAGGCGTGGACCATCTGGTTCAACAGGGCATCGCGCACAGAGACCTGA ATTTTGGCTGCTGGCTGATGAGAGCATCGGCCTGCAGTTGCCCTTCAGCAGCTGGT ACGTGGATCGGGGCGGAAACGGCTGTCTGATGGCCCCAGAGGTGTCCACGGCCCGTCCTG GCCCCAGGGCAGTGATTGACTACAGCAAGGCTGATGCCTGGGCAGTGGGAGCCATCGCCT ATGAAATCTTCGGGCTTGTCAATCCCTTCTACGGCCAGGGCAAGGCCCACCTTGAAAGCC GCAGCTACCAAGAGGCTCAGCTACCTGCACTGCCCGAGTCAGTGCCTCCAGACGTGAGAC CAAATGTGCTTCATCTAAGCCTCTGGGGTGAACATATTCTAGCCCTGAAGAATCTGAAGT TAGACAAGATGGTTGGCTGGCTCCTCCAACAATCGGCCGCCACTTTGTTGGCCAACAGGC TCACAGAGAAGTGTTGTGTGGAAACAAAAATGAAGATGCTCTTTCTGGCTAACCTGGAGT GTGAAACGCTCTGCCAGGCAGCCCTCCTCCTCTGCTCATGGAGGGCAGCCCTGTGATGTC CCTGCATGGAGCTGGTGAATTACTAAAAGAACTTGGCATCCTCTGTGTCGTGATGGTCTG TGAATGGTGAGGGTGGGAGTCAGGAGACAAGACAGCGCAGAGAGGGGCTGGTTAGCCGGAA AAGGCCTCGGGCTTGGCAAATGGAAGAACTTGAGTGAGAGTTCAGTCTGCAGTCCTCTGC TCACAGACATCTGAAAAGTGAATGGCCAAGCTGGTCTAGTAGATGAGGCTGGACTGAGGA GGGGTAGGCCTGCATCCACAGAGGGATCCAGGCCAAGGCACTGGCTGTCAGTGGCAGAG TTTGGCTGTGACCTTTGCCCCTAACACGAGGAACTCGTTTGAAGGGGGCAGCGTAGCATG TCTGATTTGCCACCTGGATGAAGGCAGACATCAACATGGGTCAGCACGTTCAGTTACGGG AGTGGGAAATTACATGAGGCCTGGGCCTCTGCGTTCCCAAGCTGTGCGTTCTGGACCAGC GGGATTTAAACTTGAGGGTTTCCCTCCTGACTAGCCTCTCTTACAGGAATTGTGAAATAT 



Val Arg G	ln Ala	Leu Gl	y Arg	Gly	Leu	Gln	Leu	Gly	Arg	Ala	Leu	Leu
	5			10					15			

Leu Arg Phe Thr Gly Lys Pro Gly Arg Ala Tyr Gly Leu Gly Arg Pro 20 25 30

Gly Pro Ala Ala Gly Cys Val Arg Gly Glu Arg Pro Gly Trp Ala Ala 35 40 45 50

Gly Pro Gly Ala Glu Pro Arg Arg Val Gly Leu Gly Leu Pro Asn Arg

55 60 65

Leu Arg Phe Phe Arg Gln Ser Val Ala Gly Leu Ala Ala Arg Leu Gln
70 75 80

Arg Gln Phe Val Val Arg Ala Trp Gly Cys Ala Gly Pro Cys Gly Arg 85 90 95

Ala Val Phe Leu Ala Phe Gly Leu Gly Leu Gly Leu Ile Glu Glu Lys 100 105 110

Gln Ala Glu Ser Arg Arg Ala Val Ser Ala Cys Gln Glu Ile Gln Ala 115 120 125 130

Ile Phe Thr Gln Lys Ser Lys Pro Gly Pro Asp Pro Leu Asp Thr Arg 135 140 145

Arg Leu Gln Gly Phe Arg Leu Glu Glu Tyr Leu Ile Gly Gln Ser Ile 150 155 160

Gly Lys Gly Cys Ser Ala Ala Val Tyr Glu Ala Thr Met Pro Thr Leu 165 170 175

Pro Gln Asn Leu Glu Val Thr Lys Ser Thr Gly Leu Leu Pro Gly Arg 180 185 190

Gly Pro Gly Thr Ser Ala Pro Gly Glu Gly Gln Glu Arg Ala Pro Gly 195 200 205 210

Ala Pro Ala Phe Pro Leu Ala Ile Lys Met Met Trp Asn Ile Ser Ala 215 220 225

## FIGURE 3 (c nt'd)

- Gly Ser Ser Glu Ala Ile Leu Asn Thr Met Ser Gln Glu Leu Val 230 235 240
- Pro Ala Ser Arg Val Ala Leu Ala Gly Glu Tyr Gly Ala Val Thr Tyr 245 250 255
- Arg Lys Ser Lys Arg Gly Pro Lys Gln Leu Ala Pro His Pro Asn Ile 260 265 270
- Ile Arg Val Leu Arg Ala Phe Thr Ser Ser Val Pro Leu Leu Pro Gly 275 280 285 290
- Ala Leu Val Asp Tyr Pro Asp Val Leu Pro Ser Arg Leu His Pro Glu 295 300 305
- Gly Leu Gly His Gly Arg Thr Leu Phe Leu Val Met Lys Asn Tyr Pro 310 315 320
- Cys Thr Leu Arg Gln Tyr Leu Cys Val Asn Thr Pro Ser Pro Arg Leu 325 330 335
- Ala Ala Met Met Leu Leu Gln Leu Leu Glu Gly Val Asp His Leu Val 340 345 350
- Gln Gln Gly Ile Ala His Arg Asp Leu Lys Ser Asp Asn Ile Leu Val 355 360 365 370
- Glu Leu Asp Pro Asp Gly Cys Pro Trp Leu Val Ile Ala Asp Phe Gly 375 380 385
- Cys Cys Leu Ala Asp Glu Ser Ile Gly Leu Gln Leu Pro Phe Ser Ser 390 395 400
- Trp Tyr Val Asp Arg Gly Gly Asn Gly Cys Leu Met Ala Pro Glu Val 405 410 415
- Ser Thr Ala Arg Pro Gly Pro Arg Ala Val Ile Asp Tyr Ser Lys Ala 420 425 430

## FIGURE 3 (cont'd)

Asp	Ala	Trp	Ala	Val	Gly	Ala	Ile	Ala	Туг	Glu	Ile	Phe	Gly	Leu	Val
435					440					445					450
Asn	Pro	Phe	ू Tyr	Gly 455	Gln	Gly	Lys	Ala	His 460	Leu	Glu	Ser	Arg	Ser 465	Tyr
Gln	Glu	Ala	Gln 470	Leu	Pro	Ala	Leu	Pro 475	Glu	Ser	Val	Pro	Pro 480	Asp	Val
Arg	Gln	Leu 485	Val	Arg	Ala	Leu	Leu 490	Gln	Arg	Glu	Ala	Ser 495	Lys	Arg	Pro
Ser	Ala 500	Arg	Val	Ala	Ala	Asn 505	Val		His	Leu	Ser 510	Leu	Trp	Gly	Glu
His 515	Ile	Leu	Ala	Leu	Lys 520	Asn	Leu	Lys	Leu	Asp 525	Lys	Met	Val	Gly	Trp 530
Leu	Leu	Gln	Gln	Ser 535	Ala	Ala	Thr	Leu	Leu 540	Ala	Asn	Arg	Leu	Thr 545	Glu
Lys	Cys	Cys	<b>Val</b> 550	Glu	Thr	Lys	Met	Lys 555	Met	Leu	Phe	Leu	<b>Al</b> a 560	Asn	Leu
Glu	Сув	<b>Gl</b> u 565	Thr	Leu	Cys	Gln	Ala 570	Ala	Leu	Leu	Leu	Сув 575	Ser	Trp	Arg

Ala Ala Leu

GTCGACCCACGCGTCCCCCCCCCGCGTTCCGGAGACATGTCT TCTCCCCTCCGCTTTTGAGTCCGTTGAAGACACAATTTCTCTCTGTCGGGT GCTTAGGAGGAGCTCCATGAACATGTATTGAATTGGACTTAGCTGAACAG GCTGCTGGTTGGCTGCCCAGAGGGGGCAGGCTGTGTTGCTGGGAGCCTTC CAGCTCCCTGCAGCAGTCATGGGGCAGGGTTCCCCGAGTCCGTAATCCCC TTAAGTGGAGCATCCCCTTTCCTGGGAGACACGAAGCAGGAAACACTGGC AAATATCACAGCAGTGAGTTACGACTTTGATGAGGAATTCTTCAGCCAGA CGAGCGAGCTGGCCAAGGACTTTATTCGGAAGCTTCTGGTTAAAGAGACC CGGAAACGCTCACAATCCAAGAGGCTCTCAGACACCCCTGGATCACGCC GGTGGACAACCAGCAAGCCATGGTGCGCAGGGAGTCTGTGGTCAATCTGG AGAACTTCAGGAAGCAGTATGTCCGCAGGCGGTGGAAGCTTTCCTTCAGC ATCGTGTCCCTGTGCAACCACCTCACCCGCTCGCTGATGAAGAAGGTGCA CCTGAGGCCGGATGAGGACCTGAGGAACTGTGAGAGTGACACTGAGGAG GACATCGCCAGGAGGAAAGCCCTCCACCCACGGAGGAGGAGCAGCACCT CCTAACTGGCCTGACCTGCAGTGGCCGCCAGGGAGGTCTGGGCCCAGCGG GGCTCCCTTCTGTGCAGACTTTTGGACCCAGCTCAGCACCAGCACCCGGGC GTCCTGAGCACTTTGCAAGAGAGAGTGGGCCCAAGGAATTCAGAAGAGCTT GCAGGCAAGCCAGGAGACCCTGGGAGCTGTGTCTTCTGTGGAGGAG GCTCCAGCATTCCCAAAGCTCTTAATTCTCCATAAAATGGGCTTTCCTCTG TCTGCCATCCTCAGAGTCTGGGGTGGGAGTGTGGACTTAGGAAAACAATA TAAAGGACATCCTCATCATCACGGGGTGAAGGTCAGACTAAGGCAGCCTT CTTCACAGGCTGAGGGGGTTCAGAACCAGCCTGGCCAAAAATTACACCAG AGAGACAGAGTCCTCCCCATTGGGAACAGGGTGATTGAGGAAAGTGAACC TTGGGTGTGAGGGACCAATCCTGTGACCTCCCAGAACCATGGAAGCCAGG ACGTCAGGCTGACCAACACCTCAGACCTTCTGAAGCAGCCCATTGCTGGC CCGCCATGTTGTAATTTTGCTCATTTTTATTAAACTTCTGGTTTACCTGATG CTTGGCTTCTTTTAGGGCTACCCCCATCTCATTTCCTTTAGCCCGTGTGCCT GTAACTCTGAGGGGGGCACCCAGTGGGGTGCTGAGTGGGCAGAATCTCA CTGGGAGTGGTGGCTCACGCCTATAATCCCTGCGCTTTGGCAGTCCGAGG CAGGGGAATTGCTTGAACTCAGGAGTTGGAGACCAGCCTGGGCAACATGG CAAAACGCAGTCTGTACAAAAAATACAAAAAATTAGCCAGGTGTAGGGGT AGGCACCTGGCATCCCAGCTACTCCAGGGGCTGAGGTGACAGCATTGCTT AAGCCCAGAAGGTCGAGGCTGCAGTGAGCTGAGATCACGCCACTGCACTC CGGCCGC

LFDSLSVVLSLSGASPFLGDTKQETLANITAVSYDFDEEFFSQTSELAKDFIRKL LVKETRKRLTIQEALRHPWITPVDNQQAMVRRESVVNLENFRKQYVRRRWK LSFSIVSLCNHLTRSLMKKVHLRPDEDLRNCESDTEEDIARRKALHPRRRSSTS

LARELRIBETNRPH G ACG OCA TEA GCC AAA GAA CEA AGA GAA CTC COG ATT GAA GAA ACA AAC COC CCA ATG 19 D Y S S S S B ANG ANG GTG ACT GAT TAC TOO TOO TOO ACT GAG GAG TOA GAA ACT ACC GAG GAA GAG GAG BDGES 117 B THD GAA GAT GGA GAG AGC GAG ACC CAT GAT GGG ACA GTG GCT GTC AGC GAC ATA COC AGA CTG G T V A V S D 50 177 APGSNEQ ATA COA ACA GGA GCT COA GGC AGC AAC GAG CAG TAC AAT GTG GGA ATG GTG GGG ACG CAT 79 237 в н D S P S G S GOG CTG GAG ACC TOT CAT GOG GAC AGT TIC AGC GGC AGT ATT TCA AGA GAA GGA ACC TIG A M I R E T S G B K K R S 297 ATG ATT AGA GAG ACG TOT GGA GAG AAG AAG CGA TOT GGC CAC AGT GAC AGC AAT GGC TIT 119 N L P D L V Q Q S 357 OCT GOC CHE ATE AND CTE COT GAD CTE GTE CAG CAG AGE CAT TOT CEA GOT GGA ACE COG 139 TEGLGR 417 V S T ACT GAG GCA CTG GGG GGC GTC TCA ACC CAT TCC CAG GAG ATG GAC TCT GGG ACT GAA TAT H 159 4 G S S T K A 477 GOC ATG GOG AGC AGC AAA GOC TOC TTC ACC CCC TIT GTG GAC CCC AGA GTA TAC CAG SFTPFV 179 537 PTD E D EEDEESS ACE TOT COO ACT GAT GAA GAT GAA GAG GAT GAG GAA TOA TOA GOO GOA GOT CTG TIT ACT 1 199 E L L R Q EQAKLN AGC GAA CIT CIT AGG CAA GAA CAG GCC AAA CIC AAT GAA GCA AGA AAG ATT TOG GIG OTA 219 657 T IRPHSDTP N AAT GTA AAC OCA ACC AAC ATT COG OCT CAT AGC GAC ACA OCA GAA ATC AGA AAA TAC AAG 239 =: RFNSEIL 717 CA 12 ANA COA TTC ANC TCA GAA ATA CTT TGT GCA GCT CTG TGG GGT GTA ANC CTT CTG GTG GGG TENGL 259 M L L D REGQG ACT GAA AAT GGC CTG ATG CTT TTG GAC CGA AGT GGG CAA GGC AAA GTC TAT AAT CTG ATC 279 N R R R R F ( Q H 0 AAC COG AGG CCA TIT CAG CAGATG GAT GTG CTA GAG GGA CTG AAT GTC CTT GTG ACA ATT D V L E G L N S G K K N K L R V Y Y L S W 299 897 TCA GGA ANG ANG ANT ANG CTA CCA GIT THE TAT CIT TOA TOG THA AGA AND AGA ATA CTA HNDPEVEKKQGWIT 319 957 CAT AAT CAC CCA GAA GTA GAA AAG AAA CAA GGC TGG ATC ACT GTT GGG GAC TTG GAA GGC 339 I H Y K V V K Y B R I W K TOT ATA CAT TAT AAA GIT GIT AAA TAT GAA AGG ATC AAA TIT TIG GIG ATT GCC TIA AAG NAVEIYAWAPKPY 359 1077 AAT GCT GTG GAA ATA TAT GCT TGG GCT CCT AAA CCG TAT CAT AAA TTC ATG GCA TITT AAG S P A D L Q 1137 H ĸ TOT TIT GCA GAT CTC CAG CAC AAG CCT CTG CTA GTT GAT CTC ACG GTA GAA GAA GGT CAA 399 STATES RLKV 1197 I P G H T G PH V v 419

النام	TTA	AAC	GIT	ATT	177 1333	CCI	TCA	CAC	ACT	CCT	TTC	CAT	<b>GEN</b>	ATT	GAT	GTT	GAT	TCA	GGA	1257
AAC	TCT	TAT	CAT	YIC	Y TAC	I ATA	P CCA	S TCT	H CAT	I ATT	care o	G GGC	n aat	I	T ACT	P CCT	H CAT	A GCT	I ATT	439 1317
esc.	ATC	L TTG	CT P	X XXX										-						444 1332

FIGURE 5 (cont'd)